

Re: Fw: Excel spreadsheets of EPA/BLM collected water quality data

Megan_Dudevoir to: Forrest.Sabrina

12/09/2010 01:56 PM

From: Megan_Dudevoir@URSCorp.com

To:

Cc: Andrew_Longworth@URSCorp.com

Sabrina,

To answer Bill's questions:

1. I am not sure about the broken link, I will talk with Andrew about that on Monday.
2. The data we used was from November of each year. We went with data from one month to make trends easier to see by eliminating seasonal variation. Also, this would eliminate any variation caused by times of year that Sunnyside Gold Corp was treating Cement Creek.
3. In the Church report on page 74 there is a section which describes the history of reclamation activities in Cement Creek. This indicates that between fall of 1996 and 1999, during non-runoff periods, Cement Creek was diverted and treated to mitigate short term impact of remedial activities. The end of this treatment in 1999 would explain the jump. I have attached a scan of page 74.

Let me know if you need anything else.

Also, the sampling trip report is being reviewed and will get to you early next week.

Megan J. Dudevoir

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Forrest.Sabrina@epamail.epa.gov

12/09/2010 12:30 PM

To: andrew_longworth@urscorp.com, jeremiah_ervin@urscorp.com, megan_dudevoir@urscorp.com

cc

Subject: Fw: Excel spreadsheets of EPA/BLM collected water quality data

All (I realize Andrew may not be available any longer), Can you help me get answers for Bill Simon's questions?

Sincerely,

Sabrina Forrest

NPL Coordinator &

Site Assessment Manager

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----- Forwarded by Sabrina Forrest/R8/USEPA/US on 12/09/2010 12:29 PM -----

From: "William Simon" <wsimon@frontier.net>

To: Sabrina Forrest/R8/USEPA/US@EPA, "Peter Butler" <pbutler@wildblue.net>

Cc: "Fearn Engineering" <fearneng@rmi.net>, <andrew_longworth@urscorp.com>, Steven Way/R8/USEPA/US@EPA

Date: 12/09/2010 09:53 AM

Subject: RE: Excel spreadsheets of EPA/BLM collected water quality data

I don't understand your "broken link" mentioned below?

I also don't see that Andrew or Church explain what happened in 1999 to cause that significant jump in Cd, Cu, and Zn. Since the data and dates are not included I can't be sure but it might have something to do with the time of year the samples were taken -- SGC treated all of CC at some times of year (low flow) and none of CC at other times of year. I need more information-- what months or is this a plot of yearly averages?

Bill

-----Original Message-----

From: Forrest.Sabrina@epamail.epa.gov

[\[mailto:Forrest.Sabrina@epamail.epa.gov\]](mailto:Forrest.Sabrina@epamail.epa.gov)

Sent: Tuesday, December 07, 2010 8:24 AM

To: Peter Butler; 'William Simon'

Cc: 'Fearn Engineering'; andrew_longworth@urscorp.com;

Way.Steven@epamail.epa.gov

Subject: RE: Excel spreadsheets of EPA/BLM collected water quality data

Peter and Bill, I just want to follow up to see if the ARSG web site does in fact have a broken link or something for the 2004-2009 data the START staff were looking for when EPA was outlining how to possibly respond to Todd Hennis' letter. Also, Andrew Longworth noted the following with regard to the 1999 spike:

"I was digging through some data/reports here and found something to explain the 1999 jump in concentrations. It turns out that between 1996 and 1999 water from cement creek above American Tunnel was treated then between 2002 and 2003 water from Gold King was treated. The charts I provided were based on treatment stopping in 2003 and

did not take into account the switch between the two. I found this information in the Stanley Church 2007 "The effects of acidic mine drainage from historical mines in the Animas River watershed, San Juan County, Colorado" report."

Here are the draft charts that Andrew put together for us. Note that we had him average the chronic water quality standards to simplify the visuals, since there is alot going on.

(See attached file: CadmiumCC48A72A68Linear.pdf)(See attached file: CopperCC48A72A68Linear.pdf)(See attached file: ZincCC48A72Linear.pdf)

Lastly, is the ARSG responding to Todd's follow up letter? I don't believe EPA will do so; we will respond to relevant issues as needed in future meetings with the County and community. Regarding a follow up meeting with them, I think it would be beneficial to wait until we have some idea of what the November data tell us about overall listability. Therefore, I hope that could happen in February, but it may take until March.

Thanks!

Sincerely,

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From: "Peter Butler" <pbutler@wildblue.net>
To: Sabrina Forrest/R8/USEPA/US@EPA, "'William Simon'" <wsimon@frontier.net>, "'Fearn Engineering'" <fearneng@rmi.net>
Date: 11/19/2010 09:55 AM
Subject: RE: Excel spreadsheets of EPA/BLM collected water quality data

Thanks! Sabrina.

From: Forrest.Sabrina@epamail.epa.gov [<mailto:Forrest.Sabrina@epamail.epa.gov>]
Sent: Thursday, November 18, 2010 4:29 PM
To: William Simon; Peter Butler; Fearn Engineering
Subject: Excel spreadsheets of EPA/BLM collected water quality data
Importance: High

All, Sorry for the delays in getting these files to you. These are all the data that have been loaded into the Scribe database so far.

I have asked for the START contractor to help get some "pictures" of the data we have so far with regard to looking at Cement Creek concentrations and then have A72 looked at compared to standards, but I imagine you may be already working on this to show the commissioners the relative impacts from Cement on the Animas.

Do you have the flow data that Bill Schroeder may have passed along? If not, it is in the Summary file.

I have asked our TMDL staff to help get flow duration curves generated too; they are supposed to help us understand where the loads are coming from at high, moderate, and low flow. I have much to learn..

Sabrina



church p 74.pdf